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INVERTER CONTROLLED
POWER SUPPLY**

(57) Abstract:

PURPOSE: To improve response properties of an apparatus by providing a reactor with air-core coil connected in series between DC power supply and inverter part and an overvoltage sensing circuit outputting a signal, only when a voltage generated in a secondary winding

magnetically combined with said reactor exceeds a predetermined value and is generated continuously for the period of time longer than predetermined one.

CONSTITUTION: When an overvoltage flows through a reactor 14 by a malfunction of inverter part 4, a voltage corresponding to di/dt is generated in a reactor secondary winding 15. Because said voltage can obtain sufficiently large output even via no amplifier, it is possible to compare the voltage as it is with a set value by a comparator 19. When said voltage generated in the reactor secondary winding 15 exceeds a set value corresponding to $\epsilon \cdot di/dt$, a signal is outputted from said comparator 19 to an ON-delay timer circuit 20 and when said state continues longer than a set time, a signal is outputted from said ON-delay timer circuit 20 to an inverter controlling circuit 9 to stop the switching operation of transistors T1-T4.

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